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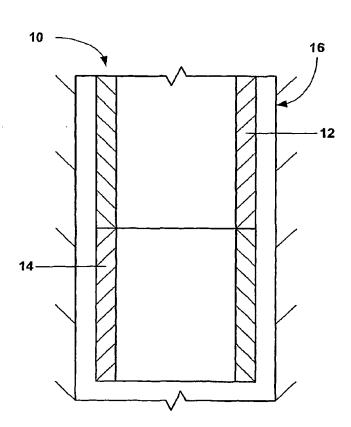
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[Continued on next page]

(54) Title: METHOD OF MANUFACTURING A TUBULAR MEMBER



(57) Abstract: A method of manufacturing a tubular member.

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#### Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv))

#### Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/28819

A. CLASSIFICATION OF SUBJECT MATTER IPC: E21B 23/00( 2006.01),17/00( 2006.01);C21D 9/08( 2006.01)				
USPC: 166/380,382,207,242.1;148/593 According to International Patent Classification (IPC) or to both national classification and IPC				
According to international rates classification (if c) of to will influence classification and if c				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols) U.S.: 166/380, 382, 207, 242.1; 148/593				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a		Relevant to claim No.	
X, E	US 2005/0217768 A1 (ASAHI et al) 06 October 20		1-23	
x	in particular Paragraphs [0005], [0052]-[0078], [0090]-[0113], and Tables 1-3).  US 6,543,552 B1 (METCALFE et al) 08 April 2003 (08/04/2003), see tubular member 18 having one or more intermediate characteristics in Figures 1-5 and one or more final characteristics in Figures 6-7.			
A	US 3,785,193 A (KINLEY et al) 15 January 1974 (	15/01/1974), see figures 1-3.	1-7	
Further	documents are listed in the continuation of Box C.	See patent family annex.		
<ul> <li>Special categories of cited documents:</li> <li>A* document defining the general state of the art which is not considered to be</li> </ul>		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
·	ar relevance dicution or patent published on or after the international filing	X" document of particular relevance; the claimed invention causo be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y"  document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art		
"O" document	referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent f	family .	
"P" document published prior to the international filing date but later than the				
Date of the actual completion of the international search		Date of mailing of the international search report  0.3 AUG 2006		
50 April 2000 (50:04:2000)				
Name and mailing address of the ISA/US  Mail Stop PCT, Ann: ISA/US				
Commissioner of Patents P.O. Box 1450		Hoang Dang		
Alexandria, Virginia 22313-1450  acsimile No. (571) 273-3201  Telephone No. 571-272-3600				
MOUNTAIN IN.	10.1/ =.0 0001			

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/28819

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)			
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claim Nos.:  because they relate to subject matter not required to be searched by this Authority, namely:			
Claim Nos.:  because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3. Claim Nos.:  because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet			
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.			

	PCT/US05/28819
INTERNATIONAL SEARCH REPORT	
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	<b>:</b>
BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LA	ACKING
This application contains the following inventions or groups of inventions which a	
concept under PCT Rule 13.1. In order for all inventions to be examined, the ap	propriate additional examination fees must be paid.
Group I, claim(s) 1-7, drawn to a method of manufacturing a tubular member.	
Group II, claim(s) 8-23, drawn to a method of manufacturing an expandable tubu	lar member.
Group it, claim(s) 5-23, drawn to a mention of manufacturing an expandition took	
The inventions listed as Groups I and II do not relate to a single general inventive	e concept under PCT Rule 13.1 because, under PCT
Rule 13.2, they lack the same or corresponding special technical features for the	following reasons: The special technical featu re of the
claims of Group I is the intermediate characteristics of the tubular member when	it is positioned within a preexisting structure where it
is processed into its final characteristics. The special technical feature of the claim	ns of Group II is the quenching of the tubular member
after heat treating so that the tubular member comprises a microstructure comprise Groups I and II lack unity because they depend on different technical features.	sing a hard phase and a soft phase. The inventions of
Groups I and II lack unity occause they depend on different common teatures.	
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